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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/040,480	01/09/2002	Cheng-Chun Chang	BHT-3092-260	2899

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SUITE 1404
5205 LEESBURG PIKE
FALLS CHURCH, VA 22041

EXAMINER

TO, BAO TRAN N

ART UNIT	PAPER NUMBER
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2135

DATE MAILED: 05/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/040,480

Applicant(s)

CHANG, CHENG-CHUN

Examiner

Bao tran N. To

Art Unit

2135

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 January 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 January 2002 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. Claims 1-7 are pending in the application.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a) because they fail to show "a encipher/decipher device 2" as described in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required

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corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within **the range of 50 to 150 words**. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Objections

4. Claim 2 is objected to because of the following informalities: The phrase "the a connector" (line 5) should be -- the connector --. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tello (U.S. Patent 6,463,537 B1) in view of Liu (U.S. Patent 6,231,145 B1).

Regarding to claim 1, Tello discloses a data encipher/decipher system of a computer, comprising:

- a storage device (data storage devices) (col. 6, lines 25-26),
 - a circuit board (motherboard) (col. 5, lines 10-11);
 - an encipher/decipher device, being a control IC with a specific built in logic operation symbol or with an equation operation device (col. 14, lines 47-58), being mounted on the circuit board to connect with the signal line (col. 14, lines 13-18);
 - an unlock receptacle, being disposed at an outer side of the portable rack to connect with the signal line (col. 14, lines 47-48); and
 - an unlock key with an inner unlock chip, providing a unlock plug at an end thereof for being inserted into the unlock receptacle (col. 14, lines 47-50);
- whereby, once the delay connector and the power source plug are connected to the storage device to result in a state of signal on and power on, the control IC performs a procedure of identifying a password of the unlock key as soon as the unlock key is inserted into the unlock receptacle; and if the password of the unlock key conforms a password of the control IC, a user can read data in the storage device or write data into the storage device under a condition of the data being deciphered or being in a state of encryption immediately line (col. 3, lines 34-44).

Further, Tello teaches "a delay connector with a standard IDE interface and a power source plug, providing at least two connecting wires extending outward the portable rack, and having a signal line" (col. 6, lines 28-32).

Tello is silent on the portable rack. However, Tello teaches that smart card (data storage) is read through a smart card reader. As shown in Fig. 1, the smart card would be inserted to the smart card reader. Nevertheless, Liu discloses the "Mobile Rack Assembly for Hard Disk Driver" invention, which includes the portable rack for easy access to the hard drive (col. 2, lines 48-53).

Therefore, it would have been obvious at the time of the invention was made for one having ordinary skill in the art to incorporate Liu's invention with Tello to have the storage memory device portably connected to the computer with the motivation being to allow for easy access to the storage device.

Regarding on claim 2, Tello and Liu teach "the data encipher/decipher system for a portable rack of a computer according to claim 1, wherein the portable rack is a mobile rack composed of an inner rack and an outer rack; the outer rack is mounted to a computer housing and the inner rack is detachably fixed to the outer rack by way of a connector on the inner rack detachably fitting with the a connector on the outer rack" (Liu, col. 1, lines 32-41).

Regarding on claim 3, Tello discloses "the data encipher/decipher system for a portable rack of a computer according to claim 2, wherein one of following storage devices can be selected to accommodate to the mobile rack: a hard disk, a zip disk

drive, a magneto-optical disk drive, a tape unit and a card read" (Tello, col. 20, lines 15-16).

Regarding on claim 4, Tello and Liu teach "the data encipher/decipher system for a portable rack of a computer according to claim 1, wherein the portable rack is an external rack (Liu, col. 1, lines 62-65).

Regarding on claim 5, Tello discloses "the data encipher/decipher system for a portable rack of a computer according to claim 4, wherein one of following storage devices can be selected to accommodate to the external rack: a compact disk rewriter, a hard disk, a zip disk drive, a magneto-optical disk drive, a tape unit and card read (Tello, col. 20, lines 15-16).

Regarding on claim 6, Tello discloses "the data encipher/decipher system for a portable rack of a computer according to claim 1, wherein the circuit board further extends a plurality of lead wires to join at least two signal lights disposed on an outer side of the portable rack to indicate a status of the power source, the storage device or identifying the password (Tello, col. 6, lines 55-59).

6. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tello in view of Liu, and further in view of Sarat (U.S. 6,581,122 B1).

Regarding on claim 7, Tello and Liu teach the data encipher/decipher system for a portable rack of a computer according to claim 1. However, Tello and Liu do not teach "wherein the unlock receptacle is a USB receptacle or a IEEE 1394 receptacle and the unlock plug is a USB plug or a IEEE plug". Nevertheless, Sarat discloses

"Smart Card Which Operates With The USB Protocol" invention, which teaches a smart card device connected to the USB interface of the personal computer (col. 3, lines 60-67 and col. 4, lines 24-30). Therefore, It would have been obvious at the time the invention was made for one having ordinary skill in the art to incorporate Sarat's USB Connecting Interface to the Smart Card in Tello and Liu's invention in order to provide a user friendly and fast interface to authenticate.

Prior Art

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Chang (U.S. Patent 5,694,290) Patent Date: 12/02/1997.

This U.S. Patent is related to the scope of current application with same inventor. Chang discloses a replaceable hard disk drive box structure including a box body and a securing seat accommodating the body. The box body comprises a base, an inner face plate, an upper cover, and a handle. The inner face plate has two outwardly projecting mounting portions for accommodating respective fan. An identification code display is disposed between the mounting portions to allow the user to directly locate the hard disk on the SCSI interface.

Chang (U.S. Patent 6,563,714 B2) Patent Date: 05/13/2003.

This U.S. Patent is expressly related to the scope of current application with same inventor. Chang discloses a mobile rack with IDE and USB interfaces comprises an outer frame, and an outer circuit board. The outer frame has a central frame

chamber. The outer circuit board is attached to the rear side of the outer frame with a 40-pin IDE interface connector and a power input socket at the outer side thereof respectively.

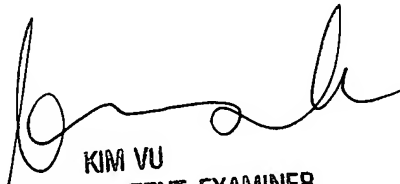
Contact Information

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao Tran N. To whose telephone number is 571-272-8156. The examiner can normally be reached on Monday-Friday from 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bao Tran N. To
Patent Examiner
05/18/2005


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SUPERVISORY PATENT EXAMINER
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